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Western University of Pennsylvania Bulletin

DENTAL DEPARTMENT ANNOUNCEMENT

Vol. 4—June, 1908—No. 6

PITTSBURGH DENTAL COLLEGE

Pride and Bluff Sts., Pittsburgh, Pa.

SESSION OF
1908-1909

Catalog and Circular of Information

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PITTSBURGH DENTAL COLLEGE

Catalog and Circular of Information

of the

PITTSBURGH DENTAL COLLEGE

Dental Department of the Western University of Pennsylvania

Session of Nineteen Hundred Eight and Nineteen Hundred Nine

For further information, address
H. E. FRIESELL, D.D.S., Dean,
Pride and Bluff Sts., Pittsburgh, Pa.

PROPOSED NEW DENTAL BUILDING

HISTORY

The Western University of Pennsylvania is the oldest institution of learning, with one exception (the University of Nashville), in the United States, west of the Appalachian Mountain range. It came into being as the Pittsburgh Academy in the year 1786, and was formally incorporated by Act of Legislature in February, 1787. It was re-incorporated as the Western University of Pennsylvania in February, 1819. It has educated in whole or in part more than six thousand of the young men of Western Pennsylvania and adjacent States, and its alumni have filled many of the most distinguished offices in the gift of the Commonwealth and the nation.

The growth of the institution has been rapid in more recent years, and the University is to-day the most largely attended institution of learning in its class in the State of Pennsylvania, with the single exception of its sister institution—University of Pennsylvania, located in Philadelphia.

The University has the following departments:

Collegiate and Engineering Department.
Department of Law.
Department of Medicine.
Department of Pharmacy.
Department of Dentistry.

SUMMARY OF STUDENTS BY DEPARTMENTS

SESSION OF 1907-1908.

Collegiate	97
Engineering	119
Law	105
Medicine	359
Pharmacy	209
Dentistry	131
Summer School	138
Total	1,158

CALENDAR FOR 1908-1909.

1908

September 1.....Tuesday—Infirmary opens.
October 5.....Monday—Winter Term begins.
Recess from December 24 to January 3, both inclusive.

1909

June 1.....Tuesday—Spring Term begins.
June 9.....Wednesday—Commencement.

BOARD OF TRUSTEES

DATE ELECTED		
	CLASS I. TERM EXPIRES 1910	
1890	Benjamin Thaw, A.B.	Pittsburgh
1908	Walther Riddle, A.M., Ph.D.	North Side, Pittsburgh
1894	William Lucien Scaife, Ph.B., C.E	North Side, Pittsburgh
1895	Andrew Carnegie, LL.D.	New York
1896	Robert Pitcairn	Pittsburgh
1898	Josiah Copley Thaw, B.S.	Pittsburgh
1904	J. Chris Lange, M.D.	Pittsburgh
1906	Maitland Alexander, D.D.	Pittsburgh
1907	Edward Balthasar Heckel, M.D.	Pittsburgh
1907	Joseph Clifton Trees, M. E.	Pittsburgh
	CLASS II. TERM EXPIRES 1911	
1882	Rt. Rev. Cortlandt Whitehead, D.D.	Pittsburgh
1889	William Jacob Holland, Ph.D., LL.D.	Pittsburgh
1891	John Alfred Brashear, Sc.D., LL.D.	North Side, Pittsburgh
1900	Calvin Wells	North Side, Pittsburgh
1902	George Hubbard Clapp, Ph.B.	Pittsburgh
1904	Joseph Leonard Levy, D.D.	Pittsburgh
1906	Howard Heinz	Pittsburgh
1907	Andrew Jackson Kelly, Jr.	Pittsburgh
1908	Thomas Clifton Jenkins.	Pittsburgh
1907	Samuel Alfred Taylor, C.E.	Pittsburgh
	CLASS III. TERM EXPIRES 1909	
1891	Hon. Thomas Dorrington Carnahan, A.M.	Pittsburgh
1891	Hon. James Hay Reed, LL.D.	Pittsburgh
1892	Cyrus Black King, M.D.	North Side, Pittsburgh
1893	Andrew William Mellon, A.M.	Pittsburgh
1900	James Henry Lockhart, A.B.	Pittsburgh
1901	Emil August Schaefer, Pharm.D., Ph.D.	Pittsburgh
1902	Hon. John Douglass Shafer, LL.D.	Pittsburgh
1903	Thomas Harlan Baird McKnight	Pittsburgh
1903	Thomas Patterson, A.M.	Pittsburgh
1903	Charles Felton Scott, A.B.	Pittsburgh

EX-OFFICIO

Samuel Black McCormick, D.D., LL.D., Chancellor	Pittsburgh
Hon. George Wilkins Guthrie, Mayor	Pittsburgh
Hon. Charles F. Kirschler, Deputy Mayor	North Side, Pittsburgh

FACULTY

SAMUEL BLACK McCORMICK, D.D., LL.D.,
Chancellor.

H. EDMUND FRIESELL, D.D.S., Dean,
Professor of Operative Dentistry and Crown and Bridge Work.

OWEN LOVEJOY HERTIG, A.M., D.D.S.,
Professor of Dental Pathology and Therapeutics, and Operative Clinician.

HARRY STEWART HASLETT, D.D.S.,
Professor of Prosthetic Dentistry, Anaesthetics and Extracting.

JOHN STEWART ASHBROOK, D.D.S.,
Professor of Dental Anatomy, Dental Medicine, and Comparative Dental Anatomy.

STEWART LEROY McCURDY, A.M., M.D.,
Professor of Anatomy, Oral and General Surgery.

CLEMENT RUSSELL JONES, M.D.,
Professor of General Pathology, Materia Medica and Therapeutics.

DAVID WILLARD FLINT, D.D.S.,
Professor of Orthodontia.

WILLIAM LINCOLN FICKES, D.D.S.,
Professor of Dental Ceramics, History and Oral Hygiene.

FREDERICK AUGUSTUS RHODES, M.D.,
Professor of Physiology and Embryology.

ALBERT FLOYD JUDD, Pharm.D.,
Professor of Physics, Chemistry and Metallurgy.

FREDERICK CHARLES FRIESELL, D.D.S.,
Professor of Histology and Bacteriology.

LECTURERS

RALPH LAUSON SMITH, Esq.,
Lecturer on Dental Jurisprudence.

RUSSELL HERBERT BOGGS, M.D.,
Lecturer on Electricity and Roentgen Rays.

DEMONSTRATORS AND ASSISTANTS

ROBERT ZUGSMITH, D.D.S.,
Crown and Bridge Work.

ABRAM CHRISTY BARCLAY, D.D.S.,
Operative Dentistry.

FRANK HOWARD MAGILL, D.D.S.,
Operative Dentistry.

J. HOWARD CRAWFORD, D.D.S.,
Prosthetic Dentistry.

FRANK SMITH POST, M.D.,
Anatomical Laboratory.

FREDERICK JOHN BLUMENSCHEIN, Pharm.D.,
Chemistry.

ANDREW BENNETT WALLGREN, M.D.,
Anatomy.

JOHN FLOCKER BIDDLE, D.D.S.,
Operative Dentistry and Ceramics.

JOHN GRAYSON FITZHUGH, D.D.S.,
Operative Dentistry.

ORLO CLIFTON SCHLAG, D.D.S.,
Operative Dentistry.

CECIL OLIVER BOOTH, D.D.S.,
Prosthetic Dentistry.

HARRY SPEER SMITH, D.D.S.,
Operative Dentistry.

LESLIE WADDILL, D.D.S.,
Dental Anatomy.

ANDREW MOMJAN MARTIN, D.D.S.,
Crown and Bridge Work.

HARRY CHARLES FELDSTEIN, M.D.,
Physiology.

GEORGE WENZEL POLLOCK, M.D.,
Anatomy.

GENERAL INFORMATION

The Pittsburgh Dental College is the Dental Department of the Western University of Pennsylvania.

Senior students who have passed the required grades and have otherwise complied with the rules of the College are recommended by the Faculty of the department to the Board of Trustees of the University for their degree, the same being conferred by the Chancellor.

Diplomas are signed by the Faculty of the Dental Department, and the Chancellor and President of the Board of Trustees, and to them is attached the seal of the University.

A candidate for the degree of Doctor of Dental Surgery must have attended three full courses of lectures in some reputable dental college, the last one of which must be in this school. He must be twenty-one years of age, and of good moral character.

REQUIREMENTS FOR ADMISSION

Extracts from the Code of Rules of the National Association of Dental Faculties:

"The minimum preliminary educational requirement of colleges of this Association shall be a certificate of having passed the third year of a high school, or its equivalent, the preliminary examination to be placed in the hands of any state or county superintendent of public instruction."

"No member of this Association shall give credit for a full course to students admitted later than ten days after the opening of the session, as published in the announcement."

"That students in attendance at colleges of this Association, to obtain credit for a full term, must be and remain in attendance until the close of the session."

Students presenting credentials from reputable schools, medical, scientific or literary, for work done in branches taught in this school, and covering these branches fully or in clearly definite part, will be credited for such work, provided that such credits shall amount to as much as one-half year.

COURSES OF INSTRUCTION

FRESHMAN YEAR

1. Operative Dentistry—Lectures and Technic Course.
4. Prosthetic Dentistry—Lectures and Laboratory.
6. Dental Anatomy—Lectures and Technic Course.
9. Anatomy.
10. Dissecting.
12. General Chemistry and Physics—Lectures and Laboratory.
13. Materia Medica.
17. Physiology and Embryology.
18. General Histology—Lectures and Laboratory.

JUNIOR YEAR

1. Operative Dentistry—Lectures and Technic Course.
2. Crown and Bridge Work—Lectures and Technic Course.
4. Prosthetic Dentistry—Lectures and Laboratory.
7. Comparative Dental Anatomy.
9. Anatomy.
10. Dissecting.
11. Principles of Surgery.
12. Inorganic Chemistry—Lectures and Laboratory.
14. General Pathology and Therapeutics—Lectures and Laboratory.
17. Physiology.
18. Dental Histology—Lectures and Laboratory.

SENIOR YEAR

1. Operative Dentistry.
2. Crown and Bridge Work—Lectures and Technic Course.
3. Dental Pathology and Therapeutics.
5. Anaesthesia and Extracting.
8. Dental Medicine.
9. Oral Surgery.
12. Organic Chemistry—Lectures and Laboratory.
12. Metallurgy—Lectures and Laboratory.
13. Materia Medica.
15. Orthodontia—Lectures and Technic Course.
16. Dental Ceramics—Lectures and Technic Course.
19. Electro-Therapeutics.
20. Dental Jurisprudence.
1. Infirmary Practice.
3. Special Operative Clinics.

DEPARTMENTS OF INSTRUCTION

I. OPERATIVE DENTISTRY

Professor H. E. Friesell

The principles and practice of Operative Dentistry are taught by the application of systematic procedures to operations in classes, so that a correct judgment may be formed as to their application in particular operations.

The same method of instruction will be applied by clinical instructors, the classes being divided into sections.

Modern and accepted methods will be exemplified.

Instruments.—Each student, before beginning his work, is required to procure the instruments necessary for his use, a list of which will be furnished. Each Senior student is required to have a dental engine.

All materials used upon patients, including medicines, napkins, rubber dam, etc., furnished by the College.

OPERATIVE TECHNICS

Professor Friesell and Dr. Smith

First Year. 1 Lecture, 3 hours Laboratory.

The object of this course is to make the students thoroughly familiar with the organs to be operated upon, together with the principles that underlie all operations upon the teeth, and to provide a systematic course in manual training.

Students will have before them teeth of each denomination, so that right conceptions of form and the relations of the tissues may be studied.

Systematic nomenclature will be taught.

Cutting of sections of each tooth will be practiced.

The surface outlines, markings, and the comparative size and location of the internal cavities of each tooth will be considered.

Professor Friesell and Dr. Magill

Second Year. 1 Lecture, 6 hours Laboratory.

This course includes: Sectioning of teeth through various surfaces in order to gain a knowledge of the inception and progress of caries; the preparation of cavities of each class in enlarged plaster models; preparing cavities in extracted teeth and celluloid tooth forms, and filling the same with gold; the use of the various forms of gold and other filling materials; opening, enlarging and filling root canals; bleaching, scaling, and as far as possible all operative procedures in detail; instruments and instrumentation.

Professor Friesell

Third Year. 2 Lectures 1st Semester, 1 Lecture 2d Semester.

A review of the technical procedures taught in the preceding years will be followed by a course of lectures and recitations covering the whole field of the principles and practice of Operative Dentistry.

The Operative Clinic is open daily from ten to four o'clock throughout the year, except during the months of July and August,

and is in charge of the professor and demonstrators of operative dentistry. The principles learned in the technic course are carried out in the infirmary, and this course is made as much like an actual practice as possible.

II. CROWN AND BRIDGE WORK

Professor H. E. Friesell and Dr. Zugsmith

Second Year. 1 Lecture, 6 hours Laboratory.

A complete course in crown work, including the preparation of roots and the making of all the acceptable styles of crowns, is covered.

Third Year. 1 Lecture, 6 hours Laboratory.

Bridge work, both fixed and removable; the repairing of crowns and bridges, and the whole subject of gold inlays are treated in the Senior year. Baked crowns and porcelain bridges are covered in the department of Ceramics.

III. DENTAL PATHOLOGY AND THERAPEUTICS

Professor Hertig

Third Year. 1 Lecture, 2 hours Clinic.

Lectures from this chair will comprise instruction in the principles of dental pathology, indication and elements of disease, pathological dentition, pathological eruptions, dental caries and its results, odontalgia, periodontitis, alveolar abscess, necrosis, pyorrhoea alveolaris, and all the various diseases of the teeth and associate parts, with the therapeutic agents and materials used in the treatment and correction of the same.

Private operative clinics, covering every practical operation, will be given before the Senior class in sections.

IV. PROSTHETIC DENTISTRY

Professor Haslett, Dr .Crawford and Dr. Booth

First Year. 1 Lecture, 12 hours Laboratory and Demonstrations.

The course will cover Prosthetic Technics, followed by the preparation of the mouth or dentures, impressions, methods of constructing various bases, the treatment of metals and alloys which may be of value in dentistry, and the study of temperaments in their relation to the teeth and their arrangement.

Second Year. 1 Lecture, 12 hours Laboratory and Demonstrations.

Continuous Gum Work, Artificial Vela, methods of making and adjusting appliances for fracture of the maxillae, and practical work in the clinic.

V. ANAESTHESIA AND EXTRACTING

Professor Haslett

Third Year. 1 Lecture and Demonstration.

Anaesthesia will be taught by lectures, and by demonstrations in the infirmary; will cover the whole field of local and general anaesthetics, the use, complications and dangers of each, and the means of preventing and treating accidents arising from their use.

Particular attention will be given to difficult cases of extraction, impacted teeth, etc., and the treatment of hemorrhage and such other accidents as may accompany extracting.

VI. DENTAL ANATOMY

Professor Ashbrook and Dr. Waddill

First Year. 1 Lecture, 2 hours Laboratory.

This course will consist of the drawing, modeling and carving of the various teeth, and the study of their surfaces, ridges, fossae, grooves, etc.

Systematic nomenclature; the importance of the proper contact of approximating teeth; normal occlusion, and the relation of the teeth to the soft tissues receive thorough consideration.

VII. COMPARATIVE DENTAL ANATOMY

Professor Ashbrook

Second Year. 1 Lecture.

In this division of general anatomy the student will be taught comparative anatomy by the study of Animal Life, beginning with the lowest forms, and leading up to the highest in regular gradation; taking the teeth seriatim from the lowest types, and showing their progressive evolution from simple to complex forms, demonstrated by skulls, models, charts and stereopticon.

This subject is a strong factor in emphasizing the importance of the law of occlusion.

VIII. DENTAL MEDICINE

Professor Ashbrook

Third Year. 1 Lecture.

This course will cover fully all remedial agents that belong properly to the special field of dental medicine, and will discuss briefly the most important general remedies that may be available in dental diseases and emergencies.

IX. ANATOMY

Professor McCurdy and Dr. Wallgren

First Year. 1 Lecture, 1 Quiz.

Instruction in this department consists of lectures and demonstrations of the anatomy of the entire body, special lectures being given upon regions of the face, head and neck.

The course is divided, osteology and syndesmology being treated previous to the holidays, and the muscles and blood-vessels after the holidays.

Second Year. 1 Lecture.

Surgical and Topographical Anatomy of face receives special attention, as the study of the various parts is considered.

Ante-holiday, Nervous System; Post-holiday, Organs of Special Sense and Viscera.

X. PRACTICAL ANATOMY

Dr. Post

First and Second Years. 2 hours daily during period of dissecting.

Students are required to make a complete dissection during the Freshman and Junior years.

To facilitate the study of Anatomy, boxes containing a half skeleton are given the student upon a deposit of $5.00, returnable upon return of box and the contents as it was received; or, student may keep the box, if he so desire, at no extra cost.

XI. GENERAL AND ORAL SURGERY

Professor McCurdy and Dr. Pollock

Second Year. 1 Lecture, 1 Quiz.

The Junior course covers: General principles, including repair; acute infections and the results; surgical fevers; erysipelas; shock; general diagnosis; diseases of the vascular systems; asepsis and antisepsis; anaesthetics, and principles in operations, wounds and emergencies.

Third Year. 1 Lecture.

Includes: Diseases of the structures of the oral cavity, the antrum and other cavities; diseases and injuries of the gums, alveolar process and tongue; diseases, injuries and neuroses of the face; congenital defects of the face and mouth; diseases of bone; tuberculosis; venereal diseases; diseases of the salivary glands; neuralgia; tumors; ankylosis; fractures; dislocations; general conditions producing oral manifestations, and oral diseases producing general symptoms; plastic surgery, and prosthesis.

Operations in hospitals and clinical cases at the College will give the student an opportunity to make a practical study of cases.

A course in Physical Diagnosis is given in order that graduates of this school may be able to make an intelligent examination of the heart and lungs preparatory to the administration of an anaesthetic.

XII. CHEMISTRY

Professor Judd and Dr. Blumenschein

The department of Chemistry includes general physics, general and inorganic chemistry, metallurgy, organic chemistry, and chemistry of anaesthetics. The teaching is by lectures, recitations and laboratory practice, continuous throughout three years.

GENERAL PHYSICS

First Year. 3 hours.

Properties of matter, theory of constitution of matter, states of matter, physical measurements, metric system of measures, volume, mass and density, specific gravity, force and equilibrium, hydraulics, hydrostatics and pneumatics, motion, velocity and acceleration, composition and resolution of forces, Newton's laws, gravitation, work, energy and power, machines, temperature and thermometry, specific heat, effects of heat, sound, radiant energy, light, electrostatics, electro-kinetics, sources of electric current, properties of electric current, uses of electric currents, dental applications of electricity.

GENERAL AND INORGANIC CHEMISTRY

Second Year. 3 hours.

Lectures, recitations and laboratory practice. The course is begun with a brief review of the history of the subject, the scope of the science, and its relation to the other physical sciences and to dentistry, with a consideration of the notation and nomenclature employed in modern chemistry. When this preliminary work has been accomplished, the important elementary substances are taken up in order of their natural classification, and separately lectured upon. Contemporaneous with the lectures, every member of the class receives laboratory practice, which includes the preparation

(when possible) of each element in the free state, the study of its leading characters and of its characteristic reactions. When the elements have all received consideration in this manner the class is given a brief drill in qualitative analysis, with practice in the identification of inorganic chemical substances in simple mixtures.

METALLURGY

Third Year. 3 hours.

Lectures, recitations and laboratory practice. The work is carried on with lectures and recitations from lessons assigned from the text-book. After the general principles of the subject have been reviewed, the manufacture and properties of amalgams and alloys receive consideration, followed by a study of the individual metals and their uses and application in dentistry, with laboratory practice in identification of metals, and in the manufacture and assay of alloys and amalgams.

ORGANIC CHEMISTRY AND CHEMISTRY OF ANAESTHETICS

Lectures, recitations and laboratory practice. The lectures and recitations will be devoted to a consideration of the general principles of the chemistry of the Carbon Compounds, their classification and uses. In the laboratory the student is expected to prepare a series of the more important members, and to study their principal reactions and means of identification.

XIII. MATERIA MEDICA

Professor Jones

First Year. 1 Lecture.

During the early portion of the Freshman year special attention will be given to the definition of words and phrases, their derivation and signification with reference to their use in Materia Medica, Therapeutics and Pharmacy. After this, the most important drugs in general use will be taken up and considered separately, with reference to their physiological effects, doses, methods of administration, their toxic effects, antidotes, etc. The same method of teaching is continued through the course.

Third Year. 1 Lecture.

A review of the first year's work in Materia Medica and Therapeutics, and a further consideration of these subjects as applied to dentistry.

XIV. GENERAL PATHOLOGY AND THERAPEUTICS

Professor Jones

Second Year. 1 Lecture, 1 hour Laboratory.

A thorough knowledge of General Pathology is necessary before the more advanced branches or special branches can be properly understood. Hence the object of the teaching in this department is to unfold to the student the fundamental principles of the subject, and bring them within his comprehension; also to increase his interest in the study of the subject, to obtain a knowledge of the inception and course of pathological processes, their changes and effects upon the organism as manifested in abnormal conditions.

XV. ORTHODONTIA

Professor Flint

Third Year. 1 Lecture and Demonstrations.

Normal Occlusion, the etiology and classification of malocclusion, physiology of tooth movement, character of tissues involved, modern methods and appliances for the correction of malposed teeth, and correction as related to the harmony of the facial lines, facial art, are all included in the instruction in this branch.

The technical course consists of free-hand soldering, soldering and adjusting combination appliances, and making of accurate models. The work is illustrated by stereopticon, charts and models, and demonstrated by clinical cases.

XVI. DENTAL CERAMICS

Professor Fickes and Dr. Biddle

Third Year. 1 Lecture, 12 hours Laboratory.

Instruction in this course will consist of one lecture each week, supplemented by demonstrations, in detail, of practical, operative and prosthetic porcelain work.

The more important subjects are: The history and development of the porcelain art; the composition, characteristics and manipulation of porcelain compounds; the source of heat employed; the use and care of furnaces, and descriptions and demonstrations of all the more important methods of inlay, crown and bridge and continuous gum work.

XVII. PHYSIOLOGY AND EMBRYOLOGY

Professor Rhodes and Dr. Feldstein

First Year. 1 Lecture, 1 Quiz.

The teaching in this branch will consist of lectures, quizzes and practical demonstrations.

In the lectures it will be the aim of the teaching to continually keep in mind the fact that the normal condition must be understood before the abnormal can be known. The student will be taught, as far as possible, to form his conclusions from facts of personal observation, and from those given to him by the demonstrations of the professor.

Each and every structure of the body will be shown, its function and its relation to every other structure. Special attention will be given to the subjects of blood, circulation, digestion and the nervous system, where these are so closely identified with important laws of interest to the dental student.

The lectures will be supplemented by quizzes, and each student will be required to pass an examination in all subjects which have been taught.

Second Year. 1 Lecture, 1 Quiz.

Muscle and nerve physiology, production of the voice, central nervous system, brain, spinal cord, reproductive organs, empryology and development are considered.

XVIII. HISTOLOGY

Professor F. C. Friesell and Dr. Crawford

First Year. 1 Lecture and Laboratory.

The course in Histology consists of a systematic presentation of

the subject of the minute anatomy of the various parts of the body, partly by lectures, and more especially by the practical study of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory.

The work in microscopy is preparatory to the subject of histology, and consists of a course of lectures upon the construction and manipulation of the compound microscope, with practice by the student in preparation of temporary and permanent mounts, including the technique of embedding, sectioning and staining both of hard and soft tissues.

The laboratory is supplied with microscopes and all the apparatus necessary to render the student familiar with the subject of microscopial technique, as well as the normal Histology of the various tissues and organs of the body. Students are required to mount at least twenty-five slides.

Second Year. 1 Lecture and Laboratory.

Lectures on Dental Histology embrace the origin, development, tissues and the functions of the teeth, and the development of the superior and inferior maxillary bones. The dental tissues; enamel, dentine, cementum, peridental membranes, periosteum, the tooth pulp, the other soft tissues of the mouth, and a short course in embryology of the dental structures.

PATHOLOGICAL LABORATORY

Laboratory work in pathology and bacteriology is carried on in conjunction with histology. Slides of pathological conditions, including tumors, diseases of the liver, kidneys, lungs, etc., are prepared.

The bacteriological laboratory is equipped with a high-power microscope, containing oil-immersion lens, Abbe condenser and iris-diaphragm. It also contains incubator, dry and moist sterilizers, and every variety of apparatus known to modern bacteriology.

Students are taught rapid staining and mounting of secretions, principles of sterilization, method of isolating bacteria, technique of making plates, study of colonies, staining, mounting and examination of the more common varieties of bacteria, with special reference to bacteria found in the mouth.

XIX. ELECTRICITY—X-RAY

Dr. Russell H. Boggs.

Third Year. 1 Lecture, part of Second Semester.

X-Ray and electricity, as applied to dentistry, have been added to the list of branches taught in the college. The students will be taught the uses of radiography, and will be given instruction in preparing and developing plates after they are made. The course will cover instruction in electrophysics, electrophysiology and electrotherapeutics, and the control of electricity as a motor power.

XX. DENTAL JURISPRUDENCE

Ralph L. Smith, Esq.

Third Year. 1 Lecture, part of Second Semester.

The course of lectures on this branch will cover the subjects of dental witnesses, rights and liabilities of dental practitioners, in-

cluding the law of crimes, negligence and contracts, as applied to the practice of the profession, together with a discussion of the history of dental legislation in general, and of the statutes in force in Pennsylvania regulating the practice of dentistry.

The aim will be to furnish a correct idea of the general principles of the law as applied to the practice of dentistry; and to present the subject with a view to making it of practical worth. Students will be required to keep concise, but complete, notes of the lectures.

TEXT BOOKS

Freshman Year—Anatomy, Gray; Dental Anatomy, Black; Physiology, Stewart or Kirke; Materia Medica and Therapeutics, Potter; Dental Prosthesis, American Text-Book, Essig; Chemistry, Bartley; Dictionary, Dorland or Gould; Histology, Radasch.

Junior Year—Comparative Dental Anatomy, Thompson; Operative Dentistry, American Text-Book, Kirk; Oral Surgery, McCurdy; Bacteriology, McFarland; Metallurgy, Essig, Beal.

Senior Year—Dental Pathology and Therapeutics, Burchard; Dental Medicine, Long; Orthodontia, Angle.

FEES

FRESHMAN YEAR

Matriculation (paid but once), $5.00. Term ticket, $150.00.

JUNIOR YEAR

Term ticket, $150.00.

SENIOR YEAR—1908-1909

Term ticket, $150.00.

Graduation and diploma, $15.00.

Fee for dissecting, $5.00 per part.

An Athletic Fee of $5.00 is required of each student, and entitles him to admission to all of the University football games.

The foregoing fees are established for the term of 1908-09 only.

Note.—The Pittsburgh Dental College is a member of the National Association of Dental Faculties, and conforms to all its regulations.

EXAMINATIONS

Examinations are held in the various branches taught, at stated periods during the term and at the close of the year.

The marking for examination is based on a scale of 100. Students, to pass their class examinations, must attain an average grade of at least 70 and must not fall below 60 in any study.

Students of the Freshman and Junior classes falling below 60 in any study will be given the privilege of a second examination before the opening of the next winter term. A student may, however, be admitted to the class in advance if he be conditioned upon not more than two branches; but he must, during the term, pass examination in those branches before he can be examined on the studies of the year upon which he has entered.

GRADUATION

Candidates for the degree of Doctor of Dental Surgery must have attended three full courses of lectures in a reputable dental college, or its equivalent (as required by the rules of the National Association of Dental Faculties), the last of which must have been in this institution. They must be twenty-one years of age and of good moral character, and must bring before the professors of Operative and Prosthetic Dentistry such evidence of proficiency in practical dentistry as they may require.

REGULAR TERM

The regular winter term begins October 5, 1908, and continues for eight months, or until June 9, 1909.

Students must matriculate before October 15th to obtain credit for the term, except in case of sickness. Physician's certificate, 10 days allowed.

Students who fail to enter their names on the matriculation book or make application for admission before October 15th, may enter upon the payment of $75.00. No time credit can be given upon such attendance.

FALL AND SPRING TERMS

The Infirmary is open from September 1st to July 1st of the following year. During this time patients in abundance are furnished the students for practical work. During the Spring and Fall terms, the Senior and Junior classes have an opportunity to complete their requirements in practical work. During these courses daily clinics are given by the Professors or Demonstrators.

NOTES

Seats and laboratory privileges are assigned in order of matriculation.

Since distilled water is furnished for drinking purposes, there need be no fear of contracting fevers or other diseases.

The Faculty will be glad to advise parents, when so desired, of the progress and general conduct of students.

According to the regulations of the College no fees are returnable. Should the student discontinue his studies, any fee or fees paid will hold good for a subsequent course, but they are not transferable.

Fees are payable in two installments; half at the time of entering, and no student is formally entered until this fee is paid, half during the month of January. No student is permitted to enter upon final examinations at the close of the term without a ticket of admittance, which is evidence that all fees are paid, and that he has passed all previous examinations. Graduation fee is returnable to those who fail to pass.

A deposit of two dollars is required from each student to constitute a damage fund, out of which school property damaged by students is repaired, when the particular offender is unknown.

Each student will be required to supply himself with the required outfit for laboratory work in histology and bacteriology.

Grades and cards are withheld from students who have not complied with the rules of the College.

Checks should be made payable to the Pittsburgh Dental College.

For further information address

DR. H. E. FRIESELL, Dean,

Pride and Bluff Streets, Pittsburgh, Pa.

GRADUATE STUDENT

Banbury, Winfred Foster, D.D.S.	Kansas

SENIOR CLASS

Ayres, Robert	Pennsylvania
Banbury, Quince	Kansas
Biddle, David Richard	Pennsylvania
Cannon, Walter Furman	Pennsylvania
Carpenter, James Harrison	Pennsylvania
Erickson, Harry Julius	Pennsylvania
Frye, Jay Millard	Pennsylvania
Goodman, Maurice	New York
Hawkins, Edward Samuel	Pennsylvania
Heckel, Henry William	Pennsylvania
Hoffman, Frank Homer	Pennsylvania
Howard, Orville McCormick	Pennsylvania
Johnston, Bert Bright	Pennsylvania
Jones, Claude William	Pennsylvania
Kaminski, Joseph	Pennsylvania
Kensley, George Porter	Pennsylvania
King, Albert Everly	Pennsylvania
Klawuhn, Frederick	Pennsylvania
Klicka, Rudolph	Bohemia
Kyle, James Franklin	Pennsylvania
Little, Bernard William	Pennsylvania
Little, William Arthur	Pennsylvania
Marcus, Clara Ethel	Pennsylvania
Miller, Bernard Tannehill	Pennsylvania
Minium, William Henry	Pennsylvania
Moroney, Richard James	Pennsylvania
Morrow, Norman Lee	Pennsylvania
McClelland, George Andrew	Pennsylvania
McClintock, Thomas Charles	Pennsylvania
Puhl, Claude William	Pennsylvania
Ralston, Samuel Beryl	Pennsylvania
Reed, Mathew La Vaine	Pennsylvania
Rinard, Arthur Garfield	Pennsylvania
Severin, John Joseph	Pennsylvania
Stern, John Anthony	Pennsylvania
Sturgeon, James Glenn	Pennsylvania
Sullivan, John Cumming	Pennsylvania
Waldron, Frank William	Pennsylvania
Young, Charles	Pennsylvania

JUNIOR CLASS

Acken, Raymond Vincent	Pennsylvania
Barto, William John	Pennsylvania
Campbell, Joseph Francis	Pennsylvania
Carson, William Platt	Pennsylvania
Craig, Edgar Martin	Pennsylvania
Cuden, Charles Sol	Pennsylvania
Curtis, Harry Allen	New York
Cushman, George J.	Ohio
Delozier, Elwood Joseph	Pennsylvania
Donaldson, Earl McBride	Pennsylvania
Ervin, Samuel Judson	New York

Ferren, Omer Stewart	Pennsylvania
Firestone, Samuel	Pennsylvania
Folsom, Frank Todd	Pennsylvania
Frazier, James Bruce	Pennsylvania
Friday, Ralph William	Pennsylvania
Gallagher, Frank Alphonsus	Pennsylvania
Guffey, James Roy	Pennsylvania
Horner, Frank Cree	Pennsylvania
Ivory, Florence	Pennsylvania
Kison, Herbert Stifel	Pennsylvania
Koontz, Albert Freeman	Pennsylvania
Larimer, Alexander Patterson	Pennsylvania
LaRosa, Gaetano	Pennsylvania
Little, Leo Thomas	Pennsylvania
Lovell, Harry Curtis	Pennsylvania
Manon, Charles Everett	West Virginia
Moore, Louis Brenton	Pennsylvania
Moran, Joseph Michael	West Virginia
Myers, William Elliott	Pennsylvania
McCampbell, James Harvey Reed	Pennsylvania
McNary, Carl McQuaris	Pennsylvania
Neal, Max	Pennsylvania
Neiman, Pauline	Pennsylvania
Rial, Bruce P.	Pennsylvania
Ries, Alfred	Ohio
Roberts, Ernest Ray	Pennsylvania
Roe, Homer Carroll	Pennsylvania
Rumbaugh, Roy	Pennsylvania
Sedwick, Jesse David	Pennsylvania
Sleeth, Paul Nevin	Pennsylvania
Sweeney, William James	Pennsylvania
Thomas, John Oscar	Ohio
Wick, James Garfield	Pennsylvania

FRESHMAN CLASS

Balsinger, Harry Ray	Pennsylvania
Beuchler, Joseph Howard	Pennsylvania
Briney, Harry Lee	Pennsylvania
Briney, Ross Weir	Pennsylvania
Brinton, Margaret Markle	Pennsylvania
Brinton, Martha Rebecca	Pennsylvania
Brown, Samuel Conger	Pennsylvania
Brownlie, George	Pennsylvania
Butler, Raymond Bernard	Pennsylvania
Connelly, Harry Smith	Pennsylvania
Cottom, Isaac J.	Pennsylvania
Cummins, Joseph Dick	Pennsylvania
Dryden, Charles Avery	Pennsylvania
Eber, Herman Leonard	Pennsylvania
Ernst, Paul Benjamin	Pennsylvania
FitzHugh, William DeHart	Pennsylvania
Fleming, Thomas Vincent	Pennsylvania
Foley, William A.	Pennsylvania
Fordyce, James Alfred	West Virginia
Gayzakian, Elisha	Pennsylvania
Goeddel, Oscar Henry	Pennsylvania

Gordon, Robert	Pennsylvania
Hague, William Ross	Pennsylvania
Hoblitzell, Richard Carl	West Virginia
Hoover, Reuben Brown	Ohio
Huselton, John Minor	Pennsylvania
Huston, Clyde Ramsey	Pennsylvania
Johnston, Arthur Lane	Pennsylvania
Lynch, William J.	New York
Miley, Grover Cleveland	Virginia
McDonnal, Charles James	Maryland
McParland, Felix Joseph	Pennsylvania
Perlstein, Isidore	New York
Rabinowitz, Morris	Pennsylvania
Robenstein, Charles	Pennsylvania
Sapper, Benjamin	Pennsylvania
Schackne, Saul	Pennsylvania
Schwartz, Harry Marcus	Pennsylvania
Sheffler, Samuel Sarver	Pennsylvania
Sleeth, Charles Wood	Pennsylvania
Straub, Theodore	Pennsylvania
Teresi, Philip	Pennsylvania
Thornton, Harley Wilbur	Pennsylvania
Venn, John Francis	Pennsylvania
Waelde, Frank Frederick	Pennsylvania
Wine, Charles Henry	Pennsylvania
Workman, Harry Trotter	Pennsylvania

OFFICERS OF THE ALUMNI ASSOCIATION OF THE PITTSBURGH DENTAL COLLEGE

THOMAS A. HOGAN, '99 ..... President
W. A. KELLY, '05 ..... Vice President
F. CHARLES FRIESELL, '98 ..... Secretary and Treasurer
P. V. McParland, '04 ..... Corresponding Secretary

Meeting day preceding Commencement Day, in Amphitheatre of the College.

GRADUATES

Abraham, Alfred Core.Brownsville, Pa. 1903
Ache, John Byron ....Dunbar, Pa. 1906
Ackerson, L. E.....Penn Run, Pa. 1899
Alan, H. J.....Masonic Block, Greenville, Pa.....1899
Allen, Jos. A.....2033 Center Ave., Pittsburgh, Pa.....1905
Alter, Chas. H.....Arch St., near Sampson, N. S., Pittsburgh, Pa. 1901
Ambrose, P. A.....Sharpsburg, Pa. 1899
Amos, Alvin Curtis....Second Ave., Hazelwood, Pittsburgh, Pa. 1907
Anderson, Claude D...Connellsville, Pa. 1904
Anderson, D. F.....Carnegie, Pa. 1899
Anderton, Jno. W.....Beaver Falls, Pa. 1905
Anthony, Carlton C....Penn and Winebiddle Aves., Pittsburgh, Pa. 1906
Arthurs, F. F.....Butler, Pa. 1901
Artman, A. J.....Leechburg, Pa. 1902

Artman, Marion Allen	Rimersburg, Pa.	1903
Ashcom, D. S.	Fulton Building, Pittsburgh, Pa.	1905
Balsiger, J. H.	Butler, Pa.	1905
Banbury, Winfred F.	Kansas	1907
Barchfield, M. J.	Girard, Ohio	1899
Barclay, Abram Christie	6011 Penn Ave., Pittsburgh, Pa.	1903
Bard, Alex. Eugene	Lewis Block, Pittsburgh, Pa.	1903
Bassett, F. H.	Wheeling, W. Va.	1898
Baxter, Aaron Reimer	Patton, Pa.	1907
Baxter, N. J.	Greensburg, Pa.	1898
Bayly, G. F.	320 The Holland, Lima, Ohio	1905
Beatty, Clarence H.	Johnstown, Pa.	1904
Beatty, Robert W.	Box 18, Saltsburg, Pa.	1904
Bedford, Bruce W.	8 S. Franklin St., Titusville, Pa.	1906
Beebe, Willis H.	Mission St., Pittsburgh, Pa.	1906
Bell, Emil F.	7308 Kelly St., Pittsburgh, Pa.	1904
Bender, F. G.	Stoystown, Pa.	1905
Benz, Philip B., Jr.	1213 Southern Ave., Carrick, Pa.	1904
Biddle, John Flocker	Arch St., near Parkway, N. S., Pittsburgh, Pa.	1903
*Bingham, J. C.	Washington, Pa.	1905
Blair, C. R.	Latrobe, Pa.	1899
Blair, Ross Boyde	Waynesburg, Pa.	1903
Blumenschein, Carl W	7217 Kedron Ave., Pittsburgh, Pa.	1907
Blumenthal, A. A.	Pittsburgh, Pa.	1907
Boarts, Jos. A.	Greensburg, Pa.	1905
Boisseau, Charles H.	Smithton, Pa.	1907
Boner, J. C.	Beechtree, Jefferson Co., Pa.	1902
Booth, C. O.	304 Forbes Building, Pittsburgh, Pa.	1905
Bower, A. T.	Federal St., N. S., Pittsburgh, Pa.	1897
Boyd, I. L.	Sharpsburg, Pa.	1900
Brace, G. W.	Washington, D. C.	1900
Brice, Chas. Greenwall	570 Homewood Ave., Pittsburgh, Pa.	1903
Brinkman, C. E.	400 Federal St., N. S., Pittsburgh, Pa.	1905
Brinton, Robert S.	286 Pitts St., New Castle, Pa.	1904
Brown, Harry J.	South Side, Pittsburgh, Pa.	1898
Brown, W. S.	223 40th St., Pittsburgh, Pa.	1901
Brownfield, Leslie W.	First Nat'l Bank Bldg., Uniontown, Pa.	1902
Buchanan, James L.	Harrisville, Pa.	1906
Burgoon, Walter F.		1907
Buterbaugh, F. C.	6225 Penn Ave., Pittsburgh, Pa.	1902
Butler, Charles V.	Pittsburgh, Pa.	1907
Butler, Wm. C.	Denver, Col.	1899
Calvert, C. H.	205 E. Ohio St., N. S., Pittsburgh, Pa.	1900
Campbell, Clyde S.	Connellsville, Pa.	1907
Campbell, Edgar W.	Worthington, Pa.	1903
Carroll, C. E.	Knoxville, S. S., Pittsburgh, Pa.	1901
Chessrown, J. H.	Youngstown, Ohio	1901
Christy, R. R.	Reidsburg, Pa.	1901
Churchill, M. E.	Barnesboro, Pa.	1902
Clark, Eugene Alfonso	811 Ann St., Homestead, Pa.	1903
Clark, Walter Scott	Burgettstown, Pa.	1903
Clovis, Ray M.	Uniontown, Pa.	1906
Cochran, E. E.	Karns City, Pa.	1905
Cochran, I. L.	Irwin, Pa.	1901

*Deceased.

Cole, W. G.	Claysville, Pa.	1905
Coleman, Harry Clifford	Ridgeway, Pa.	1903
Conaway, W. B.	Bristol, W. Va.	1902
Conn, F. L.	Morris Crossroads, Pa.	1900
Conrad, John H.	Johnstown, Pa.	1906
Conwell, P. C.	Blairsville, Pa.	1901
Cook, Frank N.	1008 Fifth Ave., Pittsburgh, Pa.	1899
Copeland, A. G.	Tarentum, Pa.	1905
Cottom, Joseph R.	Railroad St., Dawson, Pa.	1906
Craig, H. R.	South Lorain, Ohio	1905
Craig, R. M.	Dennison, Ohio	1900
Cratty, M. G.	Butler, Pa.	1905
Crawford, J. H.	Diamond Bank Bldg., Pittsburgh, Pa.	1905
Crawford, S. M.	Kensington, Ohio	1902
Crawshaw, O. G.	Dawson, Pa.	1900
Creery, Clark Leander	Ebensburg, Pa.	1903
Cromwell, Howard E.	Somerset, Pa.	1903
Crooks, James B.	Imperial, Pa.	1904
Crow, Benj. K.	Point Marion, Pa.	1904
Crow, F. L.	Charleroi, Pa.	1899
Crow, Jesse	Morris Crossroads, Pa.	1900
Cunningham, F. W.	Zelienople, Pa.	1905
Currie, Warren John	Bakerstown, Pa.	1903
Dale, G. C.	Grove City, Pa.	1900
Davidson, W. E.	McKeesport, Pa.	1905
Davis, Claud Melvin		1903
Davis, R. B.	Barreforge, Pa.	1905
Deeds, T. A.	Pittsburgh Life Bldg., Pittsburgh, Pa.	1902
Dennis, Chas. B.	Conneaut Lake, Pa.	1899
DeRoy, A. I.	217 Fifth Ave., Pittsburgh, Pa.	1902
Deterding, F. H.	North Ave., N. S., Pittsburgh, Pa.	1905
Deucker, Adam	Malakoff St., S. S., Pittsburgh, Pa.	1899
Dickie, Clark Johnson	Vandergrift, Pa.	1903
Dietrich, A. E.	West End Bank Bldg., Pittsburgh, Pa.	1900
Donaldson, William R.	Bulger, Pa.	1904
Dougherty, Frank H.	Freeport, Pa.	1906
*Douthett, Scott H.		1902
Dowden, James E.	Fairmount, W. Va.	1906
Dreutlein, B. H.	Akron, Ohio	1901
Duncan, D. R.	1228 Resaca St., N. S., Pittsburgh, Pa.	1900
Dunn, Wallace Hays	4200 Penn Ave., Pittsburgh, Pa.	1903
DuVall, Wilbur E.		1907
Earnest, S. P., M.D.	Delmont, Pa.	1898
Earsman, J. S., M.D.	5901 Penn Ave., Pittsburgh, Pa.	1900
Eckley, H.	Cresson, Pa.	1905
Elliott, Claud C.	Kittanning, Pa.	1899
Elliott, W. J.	Box 711, Turtle Creek, Pa.	1905
Ellis, C. H.	911 Third Ave., New Brighton, Pa.	1902
Erbey, W. F.	104 Washington Ave., Pittsburgh, Pa.	1898
Evans, John Jeffreys	Diamond Bank Bldg., Pittsburgh, Pa.	1903
Evans, Wm. C.	Brownsville, Pa.	1899
Evans, W. M.	221 Fifth Ave., Pittsburgh, Pa.	1900
Farrell, F. F.	5200 Butler St., Pittsburgh, Pa.	1901
*Fausner, Oscar	New York City	1899
Fawcett, D. W.	McKeesport, Pa.	1899

*Deceased.

Finney, H. E.	New Kensington, Pa.	1901
FitzHugh, John G.	Keystone Bldg., McKeesport, Pa.	1906
Foote, A. L., Ph.G.	5003 Liberty Ave., Pittsburgh, Pa.	1898
Ford, W. H.	Cambridge Springs, Pa.	1905
Frampton, Aylett Rains.	Wheeling, W. Va.	1903
Frank, Claud Andrew	Oil City, Pa., R. D. Route No. 1	1903
Frank, J. S. W.	Braddock, Pa.	1900
*Frazier, J. W.		1900
Freshwater, M. J.	Jeannette, Pa.	1902
Freyer, Emil	Chestnut St., N. S., Pittsburgh, Pa.	1901
Friesell, F. C.	6120 Center Ave., Pittsburgh, Pa.	1898
Fulton, J. L.	Glenfield, Pa.	1900
Gallagher, W. H.	Braddock, Pa.	1905
Gamble, G. P.	McKeesport, Pa.	1899
*Garman, J. Ross	Garman's Mills, Pa.	1904
Gatts, J. F.	Fulton Building, Pittsburgh, Pa.	1901
Getty, William Edward	Meyersdale, Pa.	1903
Gibson, M. R.	6200 Penn Ave., Pittsburgh, Pa.	1902
Giles, D. G.	Warren Ave., Apollo, Pa.	1902
Glenn, Miss M. L.	1408 Fremont St., N. S., Pittsburgh, Pa.	1900
Glotfelty, Webster B.	Sharpsburg, Pa.	1903
Gould, F. L.	Wylie Ave., Pittsburgh, Pa.	1901
Graham, Richard Jos.	Ligonier, Pa.	1903
Grant, H. E.	Emlenton, Pa.	1902
Grazier, John H.	Johnstown, Pa.	1906
Greer, W. J.	Stoneboro, Pa.	1905
*Griffiths, D. J.	McKeesport, Pa.	1899
Griffiths, Mrs. L. L.		1901
*Griffiths, W. S.		1900
Guckert, C. S.	737 E. Ohio St., N. S., Pittsburgh, Pa.	1902
Hampson, Frank Leslie.	Claysville, Pa.	1903
Hartley, H. Tyson	4245 Dunkeld Place, Pittsburgh, Pa.	1904
Hawkins, Ed. C.	Bessemer Building, Pittsburgh, Pa.	1899
Heath, Edmund P.	Clairton, Pa.	1906
Held, J. W.	Freeport, Pa.	1901
Heminger, J. R.	Lavinsville, Pa.	1900
Hendry, Howard M.	713 N. Fourth St., Steubenville, O.	1903
Hess, Herbert	Wilkinsburg, Pa.	1902
Heyl, A. W.	Evans City, Pa.	1902
Hieber, C. W.	2801 Penn Ave., Pittsburgh, Pa.	1900
Hindman, W. J.	Butler, Pa.	1900
Hipple, John S.	New Bethlehem, Pa.	1906
Hitchins, J. E.	Walnut St., McKeesport, Pa.	1901
Hobaugh, J. R.	Wilkinsburg, Pa.	1900
Hogan, T. A.	524 Penn Ave., Pittsburgh, Pa.	1899
*Holland, Wm. Stanley		1903
Hollstein, William A.	7638 Hamilton Ave., Pittsburgh, Pa.	1907
Holmes, J. Mc.	209 Ninth St., Pittsburgh, Pa.	1900
Holroyd, W. J.	1405 Fifth Ave., Pittsburgh, Pa.	1899
Horner, Carl S.	Connellsville, Pa.	1899
Horner, R. F.	Homestead, Pa.	1901
Horner, Willard C.	Pittsburgh, Pa.	1907
Horrocks, G. W.	Wilmerding, Pa.	1901
Horvitz, Miss Pauline.	1821 Fifth Ave., Pittsburgh, Pa.	1901
Howard, A. C.	Uniontown, Pa.	1901

*Deceased.

Howard, H. D.....Westinghouse Bldg., Pittsburgh, Pa....1901
Hughes, P. B.....Brookville, Pa. 1900
Hughes, Wm. G.....6314 Penn Ave., Pittsburgh, Pa. 1899
Hum, H. C.....Federal and Isabella, N. S., Pittsburgh, Pa. 1900
Humbert, Wellington Q.Grove City, Pa. 1904
Humphrey, Jesse G....Erie, Pa. 1906
*Hunn, F. C.....Beaver, Pa. 1898
Hunt, C. W.....Harmony, Pa. 1898
Husler, David P.....Pittsburgh, Pa. 1907
Hutchinson, D. P.....Fifth Ave., McKeesport, Pa. 1907
Hysong, J. H.....Braddock, Pa. 1902
Imbrie, W. D.....Clintonville, Pa. 1901
Jackson, William A....Tarentum, Pa. 1903
James, C. C.....20 Arch St., N. S., Pittsburgh, Pa.....1900
Jamison, R. B.....Court St., New Castle, Pa. 1901
Jenkins, Benjamin F...Jeannette, Pa. 1906
Johnson, M. P.....Pittsburgh Life Bldg., Pittsburgh, Pa...1901
Jones, J. M.....Youngwood, Pa. 1905
Kaiser, Oliver Van G..532 Murtland Ave., Pittsburgh, Pa. 1903
Kaltenbaugh, J. A.....Diamond Bank Bldg., Pittsburgh, Pa...1899
Kelly, Herbert A.....Grove City, Pa. 1907
Kelly, Oscar S.....Donora, Pa. 1904
Kelly, W. A.....Liberty and Sixth Sts., Pittsburgh, Pa..1905
Kennedy, Arthur M....Fayette City, Pa. 1906
Kennedy, O. M.....Wylie Ave., Pittsburgh, Pa. 1899
Kent, W. H.....Waynesburg, Pa. 1905
*Kerr, J. E.....Manito, Pa. 1901
Kerr, Robert .....Bradford, Pa. 1901
King, D. L.....Homestead, Pa. 1902
King, E. D.....Library St., Braddock, Pa. 1902
King, Ralph C.....North Hope, Pa. 1904
King, R. E.....Braddock, Pa. 1899
King, R. S.....Smithfield St., Pittsburgh, Pa. 1900
King, W. H.....Hoover's Run, Pa. 1900
*Kirk, J. B.....Smithfield, Ohio 1902
Klicka, Gottlieb E.....Austria 1904
Kramer, Arthur R.....111 E. Main St., Uniontown, Pa. 1903
Kramer, J. N.....1899
Krumpe, Herman E....Frankstown Ave. and Station St., Pittsburgh, Pa. 1904
Kusler, G. A.....Hawkins Ave., N. S., Pittsburgh, Pa. ...1900
Lake, G. C.....Lewis Block, Pittsburgh, Pa. 1901
Latshaw, Orval G.....Parkers Landing, Pa. 1906
Lee, C. O.....Fourth and Church Sts., Winston-Salem, N. C. 1905
Leet, Don S.....Brushton Ave., Pittsburgh, Pa. 1901
Leffingwell, L. G.....Rockwood, Pa. 1901
Lehner, Harry W.....1929 Sidney St., Pittsburgh, Pa. 1904
Leiber, P.....1006 Fifth Ave., Pittsburgh, Pa. 1900
Leidenroth, Curt F.....California Ave., N. S., Pittsburgh, Pa...1906
Leonard, E. L.....Meadville, Pa. 1905
Leonhard, Albert F.....Penn Ave. and Main St., Pittsburgh, Pa.1907
Le Vier, Frederick R...Manor, Pa. 1906
Lewis, H. E.....E. North Ave., N. S., Pittsburgh, Pa....1907

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*Deceased.

Limber, Wm. M.....Bedford Ave., Pittsburgh, Pa. 1901
Linhart, A. D.....Elizabeth, Pa. 1905
Linhart, W. O.....Elizabeth, Pa. 1902
Livingston, Clyde A....1201 Eighth Ave., Altoona, Pa. 1904
Livingston, Paul .....Penn and Sheridan, Pittsburgh, Pa. ...1905
Lurting, A. N., Jr.....Mars, Pa. 1907
Lyon, H. D.....29 Butler, Millvale, Pa. 1905
Lytle, W. B.....Oakdale, Pa. 1899
Mack, Walter G.....Youngwood, Pa. 1906
Magill, Frank H.....Washington, Pa. 1904
Maier, L. G.....1511 Juniata St., N. S., Pittsburgh, Pa..1902
Marquis, L. V.....Aspinwall, Pa. 1899
Martin, Andrew M.....Station St. and Larimer Ave., Pittsburgh, Pa. 1907
Martin, Job Russell....Perryopolis, Pa. 1903
Masters, E. G.....Turtle Creek, Pa. 1905
Masters, F. R.....Wilmerding, Pa. 1902
Matlack, W. E.....Steubenville, Ohio 1900
Meals, H. G.....Beaver Ave., N. S., Pittsburgh, Pa. ...1900
Mellon, F. R.....Patton, Pa. 1905
Mendel, W .E.....405 Ohio St., N. S., Pittsburgh, Pa. 1905
Meredeth, M. R.....Monongahela, Pa. 1899
Mertz, C. N.....Bellaire, Ohio 1901
*Mertz, Earl W.....1901
Meyer, G. G.....2002 Noble St., Swissvale, Pa. 1905
Middaugh, Benjamin F..Dennison, Ohio 1903
Miller, Earl G.....Carmichaels, Pa. 1904
Miller George V..... Box 107, Irwin, Pa. 1904
Miller, Harry B.....Chester, W. Va. 1907
Miller, J. A.....Pennsboro, W. Va. 1905
Miller, Joseph R.....Carnegie, Pa. 1903
Miller, J. W.....2604 Perrysville Ave., N. S., Pittsburgh, Pa. 1905
Miller, W. M.....Wellsburg, W. Va. 1901
Minton, Robert Adams..Washington, Pa. 1903
Mohney, B. T.....Rimersburg, Pa. 1902
Mohr, George Frederic..Freedom, Pa. 1903
Moore, J. H.....Craig and Forbes Sts., Pittsburgh, Pa...1902
Moore, W. D.....Crafton, Pa. 1899
Morrison, R. E.....Imperial, Pa. 1900
Myers, H. H.....Fulton Building, Pittsburgh, Pa. 1900
Myers, P. N.....902 Western Ave., N. S., Pittsburgh, Pa.1901
McAlpin, John V.....Bradford, Pa. 1904
McAlpin, Kenneth N...Butler, Pa.....1906
McAlpin, V. H.....Butler, Pa. 1902
McCandless, H. A.....Butler, Pa. 1902
McChesney, C. L.....16 Washington Ave., Pittsburgh, Pa....1899
McClymonds, John M..Slippery Rock, Pa.....1903
McConnell, J. W.....McKeesport, Pa. 1901
McConnell, T. C.....Elizabeth, Pa. 1900
McCord, C. S.....Federal St., N. S., Pittsburgh, Pa. 1905
McCready, William A..6200 Penn Ave., Pittsburgh, Pa. 1903
McCue, L. C.....Johnstown, Pa. 1905
McCue, John M.....Crafton, Pa. 1904
McCullough, A. W.....Diamond Bank Bldg., Pittsburgh, Pa. ..1902

*Deceased.

McCullough, Raymond	225 S. Main St., Pittsburgh, Pa.	1903
McCune, H. T.	Braddock, Pa.	1898
McFarland, G. L.	Sharpsburg, Pa.	1897
McGill, C. V.	Perrysville Ave., N. S., Pittsburgh, Pa.	1900
McGovern, C. L.	1826 Forbes St., Pittsburgh, Pa.	1901
McKean, G. W.	Hong Kong, China	1899
McKee, J. W.	Worthington, Pa.	1899
McKee, William B.	Homestead, Pa.	1906
McKelvey, C. V.	Federal St., N. S., Pittsburgh, Pa.	1905
McKeown, Edward I.	400 Fourth Ave., Homestead, Pa.	1903
McMillin, F. B.	Fulton Bldg., Pittsburgh, Pa.	1900
McNaughton, J.	Charleroi, Pa.	1905
McParland, Patrick V.	Hamilton Ave., Pittsburgh, Pa.	1904
Nathaniel, B.	Market St., N. S., Pittsburgh, Pa.	1901
Neill, Clyde H.	New Cumberland, W. Va.	1907
Nelson, J. R.	Bessemer Bldg., Pittsburgh, Pa.	1902
Newmyer, John W.	Irwin, Pa.	1904
O'Hara, Charles W.	Swissvale, Pa.	1904
Old, Robert J.	Federal St., N. S., Pittsburgh, Pa.	1898
O'Neil, P. G.	Bijou Bldg., Pittsburgh, Pa.	1900
Orr, I. D.	West Newton, Pa.	1899
Orwig, D. E.	McDonald, Pa.	1900
Orwig, Herbert S.	Wilkinsburg, Pa.	1903
Otto, G. F.	Wheeling, W. Va.	1898
Owens, S. T.	439 Liberty Ave., Pittsburgh, Pa.	1900
Park, E. H.	Marion Center, Pa.	1905
Parks, James Bratton	Leechburg, Pa.	1903
Patton, Isabelle B.	Wilkinsburg, Pa.	1904
Paugh, Worth	Philippi, W. Va.	1903
Pearce, Reese B.	Saltsburg, Pa.	1906
Pears, J. S.	Elizabeth, Pa.	1900
Pennington, J. A.	Fulton Bldg., Pittsburgh, Pa.	1902
Pershing, I. Robert	218 Alex St., Greensburg, Pa.	1904
Peters, Charles E.	Fulton Bldg., Pittsburgh, Pa.	1899
Petrie, Charles Edward	McKees Rocks, Pa.	1903
Phillips, Eli C.	Belle Vernon, Pa.	1903
Phillips, J. B.	McKees Rocks, Pa.	1902
Phillips, T. A.	Canal Dover, Ohio	1899
Pidgeon, A. H.	Houtzdale, Pa.	1899
Pisor, M. O.	North Hope, Pa.	1905
Potter, T. F.	Beaver Falls, Pa.	1901
Proven, J. R.	McKees Rocks, Pa.	1902
Quinn, J. P.	Federal St., N. S., Pittsburgh, Pa.	1900
Ralston, S. H.	Avalon, Pa.	1899
Ramsey, Arthur G.	414 Sixth Ave., Pittsburgh, Pa.	1904
Ramsey, D. S.	414 Sixth Ave., Pittsburgh, Pa.	1900
Reader, Henry Wilfred	Rochester, Pa.	1903
Reamer, H. B.	6200 Penn Ave., Pittsburgh, Pa.	1898
Redmond, Henry H.	New Castle, Pa.	1897
Reichenbach, Albert	McKeesport, Pa.	1902
Reith, Chas. A.	1004 Homewood Ave., Pittsburgh, Pa.	1907
Rhodes, Alvin D.	1612 Fifth Ave., McKeesport, Pa.	1907
Rinehart, C. C.	Ford City, Pa.	1899
Ritchie, Walter	La Junta, Col.	1907
Robinson, F. C.	Uniontown, Pa.	1902
Robison, Edward M.	U. S. Naval Corps, Ft. Wood, N. Y.	1907
Robison, F. A.	State College, Pa.	1900

Robison, G. T.....Windber, Pa. 1904
Robison, John Benjamin.Sheridan, Pa. 1903
Rodenbaugh, J. W.....Perrysville Ave., N. S., Pittsburgh, Pa..1900
Roland, C. M.....McKees Rocks, Pa. 1905
Roll, G. C.....1400 Beaver Ave., N. S., Pittsburgh, Pa.1900
Roney, J. E.....West Alexandria, Pa. 1899
Rowe, Pearl Evans ....6200 Penn Ave., Pittsburgh, Pa. 1903
Roy, R. C.....4801 Liberty Ave., Pittsburgh, Pa. 1902
Ryland, W. H.....Grantsville, Md. 1900
Sander, F. E.....Fulton Bldg., Pittsburgh, Pa. 1905
Schade, F. A.....Sixth and Penn, Pittsburgh, Pa. 1899
Schlag, Orlo C.....4813 Second Ave., Pittsburgh, Pa. 1906
Schlag, P. V.....Greensburg, Pa. 1900
Schlag, Stanley S.....Somerset, Pa. 1907
Schoaf, Ira B.....West Newton, Pa. 1904
Schusler, P. J.....216 Shady Ave., Pittsburgh, Pa. 1900
Scott, J. B.....Carbon Black, Pa. 1905
Scott, J. K.....4018 Penn Ave., Pittsburgh, Pa. 1899
Scott, James Polk.....Dunbar, Pa. 1903
Seegman, H. .....2241 Fifth Ave., Pittsburgh, Pa. 1905
Seitz, H. A.....Patton, Pa. 1899
Shade, G. F.....5117 Keystone St., Pittsburgh, Pa. 1902
Shaffer, J. P.....Boswell, Pa. 1900
Shaulis, E. F.....Somerset, Pa. 1905
Shoemaker, Edward C..Tyrone, Pa. 1904
Shull, Luther E.....227 S. Morgan St., Waynesburg, Pa....1906
Shumaker, C. S.....Beaver, Pa. 1905
Simeral, R. F.....Bellevue, Pa. 1900
Simpson, C. A.....Westinghouse Bldg., Pittsburgh, Pa....1899
Sleppy, Reynolds M....1915 Beaver Ave., N. S., Pittsburgh, Pa.1904
Sloan, J. H.....East Liverpool, Ohio 1897
Smalley, Edw. I.....304 W. Second St., Plainfield, N. J. 1904
Smiley, Edgar W.....Karns City, Pa. 1907
Smith, Charles S.....Pleasant Unity, Pa. 1904
Smith, Howard Russell.17 W. Chestnut St., Washington, Pa....1903
Smith, H. S.....318 Atlantic Ave., McKeesport, Pa.....1905
Smith, J. T.....Federal St., N. S., Pittsburgh, Pa. 1899
Smith, Thomas H.....Bloomington, Ill. 1906
Snyder, N. H.....Delmont, Pa. 1897
Sorber, O. M.....Seeley Bldg., Pittsburgh, Pa. 1898
South, W. H.....Washington & Fremont, N. S., Pittsburgh, Pa. 1899
Stauffer, Sarah C. E...Lindsay, Pa. 1903
Steen, Earl H.....Belle Vernon, Pa. 1904
Stevenson, Harold C.....1906
Stewart, G. L.....Rural Valley, Pa. 1899
Stewart, Robert J.....Chronicle Telegraph Bldg., Pittsburgh, Pa. 1903
Stewart, William R....Saltsburg, Pa. 1903
Stilley, A. M.....Hope Church, Pa. 1901
Stone, P. R.....Ben Avon, Pa. 1905
Strasser, J. E.....Leechburg, Pa. 1900
Stroup, W. H.....Federal and North Ave., N. S., Pittsburgh, Pa. 1905
Sugden, J. M.....Pittsburgh, Pa. 1902
Swartz, E. B.....Forbes and Atwood, Pittsburgh, Pa. ...1901
Taggart, Miss Sue L...Lewis Block, Pittsburgh, Pa. 1902

Tannehill, R. C.	Turtle Creek, Pa.	1905
Taylor, W. P.	Monongahela City, Pa.	1904
Thomas, Charles W.	Rochester, Pa.	1899
Thompson, W. C.	4800 Liberty Ave., Pittsburgh, Pa.	1902
Throckmorton, W. L.	Nineveh, Pa.	1898
Titzel, J. R.	Greenville, Pa.	1899
Todd, I. H.	Monaca, Pa.	1900
Toy, R. L.	Arch St., N. S., Pittsburgh, Pa.	1900
Urling, G. A., Jr.	Pittsburgh, Pa.	1899
Vogel, Clyde St. Clair	Sheridanville, Pa.	1903
Waddill, Leslie	1005 Wylie Ave., Pittsburgh, Pa.	1907
Walker, J. W.	6200 Penn Ave., Pittsburgh, Pa.	1902
Walsh, Richard Aloys	Crafton, Pa.	1903
Walthour, W. J.	McKees Rocks, Pa.	1899
Warren, D. H.	612 Chestnut St., N. S., Pittsburgh, Pa.	1902
Washabaugh, R. N.	Mt. Washington, Pittsburgh, Pa.	1900
Watterson, W. R.	Fulton Bldg., Pittsburgh, Pa.	1898
Waugaman, E. A.	Bellevue, Pa.	1899
Wedell, W. S.	McKeesport, Pa.	1901
Wehrle, G. C.	Altoona, Pa.	1905
Wehrle, Herbert A.	1814 Sixth Ave., Altoona, Pa.	1903
Wells, J. B.	Bristoria, Greene Co., Pa.	1900
*Wells, J. O., Jr.		1901
Wells, J. S.	New Brighton, Pa.	1900
Wells, S. S.	Zanesville, Ohio	1905
Welsh, H. J.	Ingram, Pa.	1905
Welsh, Katherine C.	2414 Carson St., S. S., Pittsburgh, Pa.	1903
Wenrick, E. E.	908 Ross Ave., Wilkinsburg, Pa.	1906
Werts, Henry C.	1007 Sixth Ave., Beaver Falls, Pa.	1904
White, Harry	Greensburg, Pa.	1901
Whitehead, C. E.	Bellevue, Pa.	1899
Wick, W. H.	Butler, Pa.	1898
Wiegering, W. P.	Youngstown, Ohio	1902
Wilhelm, E. A.	Clarion, Pa.	1899
Williams, D. N.	618 Homewood Ave., Pittsburgh, Pa.	1899
Williams, George T.	Seattle, Wash.	1903
Wilson, F. B.	5121 Butler St., Pittsburgh, Pa.	1901
Wilson, F. H.	Tarentum, Pa.	1902
Wilson, J. E.	344 Hemlock St., N. S., Pittsburgh, Pa.	1900
Wise, Albert I.	Wylie Ave., Pittsburgh, Pa.	1905
Wolford, W. C.	Kittanning, Pa.	1901
Woods, J. Y.	Connellsville, Pa.	1901
Wright, B. E.	Warren, Pa.	1899
Yohe, E. L.	Monongahela, Pa.	1899
Zugsmith, Robert	Bessemer Bldg., Pittsburgh, Pa.	1903

For errors in address please notify Dean.

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